

SAPID : 60009200030 – Sarvagya Singh – K1

Scala Experiment – lab 7

1.

Code :

```
object Main {  
  def main(args: Array[String]) {  
    var result = search ("Hello")  
    print(result)  
  }  
  def search (a:Any):Any = a match{  
    case 1 => println("One")  
    case "Two" => println("Two")  
    case "Hello" => println("Hello")  
    case _ => println("No")  
  }  
}
```

Output:

```
C:\Users\DELL\Desktop\Codes\Scala\exp10>scalac new.scala  
warning: 1 deprecation (since 2.13.0); re-run with -deprecation  
1 warning  
  
C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main  
Hello  
(  
C:\Users\DELL\Desktop\Codes\Scala\exp10>
```

2.

Code :

```
object Main {  
  def main(args: Array[String]) = {  
    var result1 = functionExample(15,2)  
    var result2 = functionExample(15)  
    var result3 = functionExample()  
    println(result1+"\n"+result2+"\n"+result3)  
  }  
  def functionExample(a:Int = 0, b:Int = 0):Int = {  
    a+b  
  }  
}
```

Output:

```
Hello
()
C:\Users\DELL\Desktop\Codes\Scala\exp10>scalac new.scala
warning: 1 deprecation (since 2.13.0); re-run with -deprecation for details
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
17
15
0

C:\Users\DELL\Desktop\Codes\Scala\exp10>
```

3.

Code :

```
object Main {
  def main(args: Array[String]) {
    val result = checkIt(-10)
    println (result)
  }
  def checkIt (a:Int) = if (a >= 0) 1 else -1
}
```

Output:

```
C:\Users\DELL\Desktop\Codes\Scala\exp10>scalac n
warning: 1 deprecation (since 2.13.0); re-run wi
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Ma
-1
```

4.

Code :

```
object Main {
  def main(args: Array[String]) = {
    var result = multiplyBy2(add2(10))
    println(result)
  }
  def add2(a:Int):Int = {
    a+2
  }

  def multiplyBy2(a:Int):Int = {
    a*2
  }
}
```

```
}  
}
```

Output:

```
-1  
C:\Users\DELL\Desktop\Codes\Scala\exp10>scalac new.scala  
  
C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main  
24  
  
C:\Users\DELL\Desktop\Codes\Scala\exp10>|
```

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Scala Experiment – lab 8

1. Write a program to find max of 3 Nos.

Code :

```
// Write a program to find max of 3 Nos.
object Main {
  def main(args: Array[String])={
    println("Hello World")
    val (a,b,c) = (2,5,9)
    println(a,b,c)
    val max1:Int = max(a,b,c)
    print("The maxx is : "+max1)
  }

  def max(a:Int,b:Int,c:Int):Int={
    if (a<b){
      if(c>b){
        return c
      }else{
        return b
      }
    }else{
      if(a>c){
        return a
      }else{
        return c
      }
    }
  }
}
```

Output:

```
C:\Users\DELL\Desktop\Codes\Scala\exp8>scalac p1.scala

C:\Users\DELL\Desktop\Codes\Scala\exp8>scala Main
Hello World
(2,5,9)
The maxx is : 9
C:\Users\DELL\Desktop\Codes\Scala\exp8>
```

2. Write a program to print given no in words using pattern matching and while loop .eg 123 output one two three.

Code :

```
object MyClass {
def max(x:Int, y:Int, z:Int)=if(x > y && x > z) x else if(y > x && y > z) y else
z
def patternMatch(x:String){
for(i<- x){
i match{
case '1' => println("One")
case '2' => println("Two")
case '3' => println("Three")
case '4' => println("Four")
case '5' => println("Five")
case '6' => println("Six")
case '7' => println("Seven")
case '8' => println("Eight")
case '9' => println("Nine")
case '0' => println("Zero")
case _ => println("Default")
}
}
}
def main(args: Array[String]) {
patternMatch("12399");
}
}
```

Output:

```
(1, 0, 9)
The maxx is : 9
C:\Users\DELL\Desktop\Codes\Scala\exp8>scala MyClass
One
Two
Three
Nine
Nine
C:\Users\DELL\Desktop\Codes\Scala\exp8>
```

3. Write a program to find whether the no is prime or not using do while loop.

Code :

```
import scala.util.control.Breaks._
object MyClass {
def prime(x:Int){
var flag = 0
var i = 2
do{
```

```

if (x%i == 0){
  flag = 1
  print("Not a prime number.")
  break
}
i = i+1
}while(i <= x/2)
if (flag == 0){
  print("Is a prime number.")
}
}
def main(args: Array[String]) {
  prime(12);
}
}

```

Output :

```

C:\Users\DELL\Desktop\Codes\Scala\exp8>scalac p3.scala
warning: 2 deprecations (since 2.13.0)
warning: 1 deprecation (since 2.13.3)
warning: 3 deprecations in total; re-run with -deprecation for details
3 warnings

C:\Users\DELL\Desktop\Codes\Scala\exp8>scala MyClass
Not a prime number.scala.util.control.BreakControl

C:\Users\DELL\Desktop\Codes\Scala\exp8>

```

4. Write a program in Scala to demonstrate string interpolation.

Code :

```

object MyClass {
  def main(args: Array[String]) {
    var a = "Sarvy"
    println("HI This is " + a);
    println(f"HI This is $a%s")
    print(s"HI This is $a")
  }
}

```

Output :

```

C:\Users\DELL\Desktop\Codes\Scala\exp8>scala MyClass
HI This is Sarvy
HI This is Sarvy
HI This is Sarvy
C:\Users\DELL\Desktop\Codes\Scala\exp8>

```

5. Write a program that prints the following patterns.

Code :

```
object MyClass {  
  def main(args: Array[String]) {  
    var i = 1;  
    var j=0;  
    for(i<-1 to 10){  
      for(j<-1 to i){  
        print("*");  
      }  
      println();  
    }  
  }  
}
```

Output :

```
warning: 1 deprecation (since 2.13.0); re-run with -deprecation for details  
1 warning
```

```
C:\Users\DELL\Desktop\Codes\Scala\exp8>scala MyClass
```

```
*  
**  
***  
****  
*****  
*****  
*****  
*****  
*****  
*****  
*****
```

Scala Experiment – lab 9

1. Write a Scala program to check whether a given positive number is a multiple of 3 or a multiple of 7

Code :

```
object MyClass {  
  def test(n: Int): Boolean =  
  {  
    n % 3 == 0 || n % 7 == 0;  
  }  
  
  def main(args: Array[String]): Unit = {  
    println("Result 30: " + test(30));  
    println("Result 14: " + test(19));  
    println("Result 19: " + test(21));  
    println("Result 35: " + test(10));  
  }  
}
```

Output:

```
C:\Users\DELL\Desktop\Codes\Scala\exp9>scala MyClass  
Radius: 5.0 and Area: 78.5  
C:\Users\DELL\Desktop\Codes\Scala\exp9>scalac p2.scala  
  
C:\Users\DELL\Desktop\Codes\Scala\exp9>scala MyClass  
Result 30: true  
Result 14: false  
Result 19: true  
Result 35: false  
  
C:\Users\DELL\Desktop\Codes\Scala\exp9>
```

2. Write a Scala program to find sum of square of the given list.

Code :

```
object MyClass {  
  var sum = 0  
  def add(a: List[Int]){  
    for (i <- a){  
      sum += i*i  
    }  
    print(sum)  
  }  
  
  def main(args: Array[String]) {  
    var nums: List[Int] = List(1, 2, 3, 4)  
  }
```



```
    add(nums)
  }
}
```

Output:

```
C:\Users\DELL\Desktop\Codes\Scala\exp9>scalac p3.scala
warning: 2 deprecations (since 2.13.0); re-run with -deprecation for details
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp9>scala MyClass
30
C:\Users\DELL\Desktop\Codes\Scala\exp9>
```

3. Write a Scala program to calculate the total cost for a customer who is buying 10 Glazed donuts. You can assume that the price of each Glazed donut item is at \$2.50.

Code :

```
object MyClass {
  def prod(x:Int) = x*2.5;

  def main(args: Array[String]) {
    print("Value of 10 apples is  = " + prod(10));
  }
}
```

Output:

```
30
C:\Users\DELL\Desktop\Codes\Scala\exp9>scalac p4.scala
warning: 1 deprecation (since 2.13.0); re-run with -deprecation for details
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp9>scala MyClass
Value of 10 apples is  = 25.0
C:\Users\DELL\Desktop\Codes\Scala\exp9>
```

4. Write a Scala program to compute the sum of the two given integer values. If the two values are the same, then return triples their sum.

Code :

```
object MyClass {
  def add(x:Int, y:Int):Int={
    var sum = 0
    if (x == y){
      sum = (x+y)*3
    }
    else{
      sum = x+y
    }
    return sum
  }

  def main(args: Array[String]) {
    print("sum of x + y = " + add(10,10));
  }
}
```

Output :

```
C:\Users\DELL\Desktop\Codes\Scala\exp9>scala MyClass
Value of 10 apples is  = 25.0
C:\Users\DELL\Desktop\Codes\Scala\exp9>scalac p5.scala
warning: 1 deprecation (since 2.13.0); re-run with -deprecation for details
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp9>scala MyClass
sum of x + y = 60
C:\Users\DELL\Desktop\Codes\Scala\exp9>
```

5) Write a recursive function to get the nth Fibonacci number. The first two Fibonacci numbers are 0 and 1. The nth number is always the sum of the previous two—the sequence begins 0, 1, 1, 2, 3, 5.

def fib (n: Int): Int

Code :

```
object MyClass {
  def fibonacci(n:Int):Int={
    if (n == 1){
      return 0;
    }
    if(n==2){
      return 1;
    }
  }
}
```

```

    return fibonacci(n - 1) + fibonacci(n - 2);
  }

  def main(args: Array[String]) {
    println(fibonacci(5))
  }
}

```

Output:

```

sum of x + y = 60
C:\Users\DELL\Desktop\Codes\Scala\exp9>scalac p6.scala
warning: 1 deprecation (since 2.13.0); re-run with -deprecation for details
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp9>scala MyClass
3

C:\Users\DELL\Desktop\Codes\Scala\exp9>

```

6) Write a function to find the values of following series:
 -Value= $a + a^2/2! + a^3/3! + a^4/4! + \dots + a^n/n!$

Code:

```

object MyClass {
  def fact(x:Int):Int={
    if(x==0 || x==1){
      return 1;
    }
    else{
      return x * fact(x-1);
    }
  }

  def power(x:Int,y:Int):Int={
    var pro = x;
    var i = y;
    while(i!=0){
      pro *= x;
      i-=1;
    }
    return pro;
  }

  def series_sum(a:Int,x:Int,fact:Int=>Int,power:(Int,Int)=>Int):Double={
    var exp = 0.0;
    for(i <- 1 to a){
      exp = exp + power(x,i)/fact(i);
    }
  }
}

```

```

        return exp
    }

    def main(args: Array[String]) {
        val a = scala.io.StdIn.readInt();
        val x = scala.io.StdIn.readInt();
        print("The sum of the series is : ");
        print(series_sum(a,x,fact,power))
    }
}

```

Output:

```

1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp9>scala MyClass
5
6
The sum of the series is : -2.8202964E7
C:\Users\DELL\Desktop\Codes\Scala\exp9>

```

7. Write a function to find multiplication of first 10 no's using function with variable length parameters

Code :

```

def mult(args: Int*) = {
    var mul = 1;
    for(a <- args) mul*=a
    mul
}
var mul = mult(2,2,7,2,3,4,5,6,10,5);
println(mul);

```

Output:

```
1008000
```

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Scala Experiment – lab 10

1. Write a program to make a class called as Circle. It should have three methods namely: accept radius, calculate area and display the area.

Code :

```
class ArrayExample{

    var arr1 = Array(Array(1,2,3,4,5), Array(6,7,8,9,10))

    var arr2 = Array(Array(1,2,3,4,5), Array(6,7,8,9,10))

    var arr3 = Array.ofDim[Int](2,5)

    def show(){

        for(i<- 0 to 1){

            for(j<- 0 to 4){

                arr3(i)(j) = arr1(i)(j)+arr2(i)(j)

                print(" "+arr3(i)(j))

            }

            println()

        }

    }

}

object Main{

    def main(args:Array[String]){

        var a = new ArrayExample()

        a.show()

    }

}
```

```
}
```

Output:

```
C:\Users\DELL\Desktop\Codes\Scala\exp10>scalac new.scala
warning: 2 deprecations (since 2.13.0); re-run with -deprecation f
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
 2 4 6 8 10
12 14 16 18 20

C:\Users\DELL\Desktop\Codes\Scala\exp10>
```

2.Code :

```
object Main {

    def sumS():Int={

        var sum = 0;

        for(i <- 1 to 10){

            sum = sum + i*i

        }

        return sum;

    }

    def main(args: Array[String]) {

        println("the sum of sqaures from 1 to 10 is " + sumS());

    }

}
```

Output:

```
* scalac -classpath . -d . main.scala
warning: 1 deprecation (since 2.13.0); re-run with -deprecation for details
1 warning
* scala -classpath . Main
```

3.Show employee () to display employee details.

Code :

```
object Main {
    def calculate(n:Int)
    {
        println("Total cost of the donuts: " + (2.50*n))
    }
    def main(args: Array[String]): Unit = {
        calculate(10)
    }
}
```

Output:

```
C:\Users\DELL\Desktop\Codes\Scala\exp10>scalac new.scala
warning: 1 deprecation (since 2.13.0); re-run with -deprecation for details
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
Total cost of the donuts: 25.0

C:\Users\DELL\Desktop\Codes\Scala\exp10>
```

4.

Code :

```
import java.util.Scanner

object Main {

  def calculate_sum(n1:Int, n2:Int)
  {
    if(n1==n2)
    {
      println("Total is: " + (n1+n2)*3)
    }
    else
    {
      println("Total is: " + (n1+n2))
    }
  }

  def main(args: Array[String]): Unit = {

    var s = new Scanner(System.in)
```



```

var n1:Int = 0

var n2:Int = 0

println("Enter first number: ")

n1 = s.nextInt()

println("Enter second number: ")

n2 = s.nextInt()

calculate_sum(n1, n2)

}

}

```

Output:

```

C:\Users\DELL\Desktop\Codes\Scala\exp10>scalac new.scala
warning: 1 deprecation (since 2.13.0); re-run with -deprec
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
^CTerminate batch job (Y/N)? Y

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
Enter first number:
5
Enter second number:
5
Total is: 11

```

5.

Code :

```

import java.util.Scanner

```

```
object Main
{
    def factorial(n:Int):Int =
    {
        var f = 1
        for(i <- 1 to n)
        {
            f = f*i
        }
        return f
    }

    def series(a:Int, n:Int):Double =
    {
        var sum:Double = 0
        for(i <- 1 to n)
        {
            sum += (Math.pow(a, i)/factorial(i))
        }
        return sum
    }

    def main(args:Array[String]):Unit={
        var s = new Scanner(System.in)

        var n:Int = 0

        var a:Int = 0

        var total:Double = 0

        println("Enter n: ")
    }
}
```

```

    n = s.nextInt()

    println("Enter value of a: ")

    a = s.nextInt()

    total = series(a, n)

    println(total)
}
}

```

Output:

```

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
Enter n:
6
Enter value of a:
9
1674.5625

C:\Users\DELL\Desktop\Codes\Scala\exp10>

```

6.

Code :

```

object Main
{
    def multiplication(n:Int)
    {
        for(i <- 1 to n)
        {
            println("Multiplication table for " + i)
        }
    }
}

```

```

    for(j <- 1 to 10)
    {
        println(i + " * " + j + " = " + (i*j))
    }
}

def main(args:Array[String]):Unit={
    multiplication(10)
}
}

```

Output:

```

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
Multiplication table for 1
1 * 1 = 1
1 * 2 = 2
1 * 3 = 3
1 * 4 = 4
1 * 5 = 5
1 * 6 = 6
1 * 7 = 7
1 * 8 = 8
1 * 9 = 9
1 * 10 = 10
Multiplication table for 2
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
2 * 10 = 20
Multiplication table for 3

```

$$8 * 9 = 72$$

$$8 * 10 = 80$$

Multiplication table for 9

$$9 * 1 = 9$$

$$9 * 2 = 18$$

$$9 * 3 = 27$$

$$9 * 4 = 36$$

$$9 * 5 = 45$$

$$9 * 6 = 54$$

$$9 * 7 = 63$$

$$9 * 8 = 72$$

$$9 * 9 = 81$$

$$9 * 10 = 90$$

Multiplication table for 10

$$10 * 1 = 10$$

$$10 * 2 = 20$$

$$10 * 3 = 30$$

$$10 * 4 = 40$$

$$10 * 5 = 50$$

$$10 * 6 = 60$$

$$10 * 7 = 70$$

$$10 * 8 = 80$$

$$10 * 9 = 90$$

$$10 * 10 = 100$$

C:\Users\BFL\Documents\Codes\Ex3\ex10.py

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Scala Experiment – lab 11

1.

Code :

```
abstract class Shape
{
    def RectangleArea(length:Int, breadth:Int)
    {
        println("Area of rectangle is: " + (length*breadth))
    }

    def SquareArea(side:Int)
    {
        println("Area of square is: " + (side*side))
    }

    def CircleArea(radius:Int)
    {
        println("Area of circle is: " + (3.14*radius*radius))
    }
}

class Area
{
```

```
def RectangleArea(length:Int, breadth:Int)
{
    println("Area of rectangle is: " + (length*breadth))
}

def SquareArea(side:Int)
{
    println("Area of square is: " + (side*side))
}

def CircleArea(radius:Int)
{
    println("Area of circle is: " + (3.14*radius*radius))
}

}

object Main {
    def main(args: Array[String]): Unit = {
        var a = new Area()
        a.RectangleArea(4, 5)
        a.SquareArea(4)
        a.CircleArea(10)
    }
}
```

Output:

```
C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
24

C:\Users\DELL\Desktop\Codes\Scala\exp10>scalac new.scala
warning: 6 deprecations (since 2.13.0); re-run with -deprecation for details
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
Area of rectangle is: 20
Area of square is: 16
Area of circle is: 314.0

C:\Users\DELL\Desktop\Codes\Scala\exp10>
```

2.

Code :

```
abstract class Marks
{
    def getPercentage():Double
}

class A(p:Int, c:Int, m:Int) extends Marks
{
    def getPercentage() :Double=
    {
        var sum = this.p + this.c + this.m
        return (sum/3)
    }
}

class B(p:Int, c:Int, m:Int, b:Int) extends Marks
{
```



```

def getPercentage():Double=
{
    var sum = this.p + this.c + this.b + this.m
    return (sum/4)
}
}

object Main
{
    def main(args:Array[String]){
        var a = new A(70, 80, 90)
        var b = new B(60, 70, 80, 90)
        println("Percentage of A: " + a.getPercentage())
        println("Percentage of B: " + b.getPercentage())
    }
}

```

Output:

```

Area of circle is: 314.0
C:\Users\DELL\Desktop\Codes\Scala\exp10>scalac new.scala
warning: 1 deprecation (since 2.13.0); re-run with -deprecation for details
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
Percentage of A: 80.0
Percentage of B: 75.0

C:\Users\DELL\Desktop\Codes\Scala\exp10>

```

3.

Code :

```
abstract class Bank
{
    def getBalance:Int
}

class BankA(a:Int) extends Bank
{
    def getBalance():Int={
        return a
    }
}

class BankB(a:Int) extends Bank
{
    def getBalance():Int={
        return a
    }
}

class BankC(a:Int) extends Bank
{
    def getBalance():Int={
        return a
    }
}
```

```

}

object Main
{
    def main(args:Array[String]):Unit={
        var a = new BankA(100)
        var b = new BankB(150)
        var c = new BankC(200)

        println("Balance in Bank A: " + a.getBalance())
        println("Balance in Bank B: " + b.getBalance())
        println("Balance in Bank C: " + c.getBalance())
    }
}

```

4.

Code :

```

abstract class Animals
{
    def cats()
    def dogs()
}

class Cats extends Animals
{
    def cats()

```

```
{  
    println("Cats meow...")  
}  
def dogs()  
{  
  
}  
}  
  
class Dogs extends Animals  
{  
    def cats()  
    {  
  
    }  
    def dogs()  
    {  
        println("Dogs bark...")  
    }  
}  
  
object Main  
{  
    def main(args:Array[String]):Unit={  
        var c = new Cats()  
    }
```

```
    var d = new Dogs()

    c.cats()

    d.dogs()

  }
}
```

Output:

3 warnings

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala new.scala

warning: 6 deprecations (since 2.13.0); re-run with -deprecation for details

Cats meow...

Dogs bark...

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main

Balance in Bank A: 100

Balance in Bank B: 150

Balance in Bank C: 200

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Scala Experiment – lab 12

1.

Code :

```
class ArrayExample{  
    var arr1 = Array(Array(1,2,3,4,5), Array(6,7,8,9,10))  
    var arr2 = Array(Array(1,2,3,4,5), Array(6,7,8,9,10))  
    var arr3 = Array.ofDim[Int](2,5)  
    def show(){  
        for(i<- 0 to 1){  
            for(j<- 0 to 4){  
                arr3(i)(j) = arr1(i)(j)+arr2(i)(j)  
                print(" "+arr3(i)(j))  
            }  
            println()  
        }  
    }  
}
```

```

object Main{

    def main(args:Array[String]){

        var a = new ArrayExample()

        a.show()

    }

}

```

Output:

```

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
warning: 2 deprecations (since 2.13.0); re-run with -deprecation for details
1 warning

2 4 6 8 10
12 14 16 18 20

C:\Users\DELL\Desktop\Codes\Scala\exp10>

```

2.

Code :

```

object Main {

    def main(args: Array[String]) {

        val list1 = List("1", "2", "3")

        val list2 = List("4", "5", "6")

        println("list1 : " + list1)

    }

}

```

```
println("list2 : " + list2)

println("Merging list1 and list2 ")

val list3 = list1 ++ list2

println("Merged list : " + list3)
}
}
```

Output:

```
C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
list1 : List(1, 2, 3)
list2 : List(4, 5, 6)
Merging list1 and list2
Merged list : List(1, 2, 3, 4, 5, 6)

C:\Users\DELL\Desktop\Codes\Scala\exp10>
```

3.

Code :

```
import scala.collection.immutable._

object Main{
```



```

def main(args:Array[String]){

    val games = Set("Cricket","Football","Hockey","Golf")

    val alphabet = Set("A","B","C","D","E")

    val mergeSet = games ++ alphabet           // Merging two sets

    println("Elements in games set: "+games.size)    // Return size of
collection

    println("Elements in alphabet set: "+alphabet.size)

    println("Elements in mergeSet: "+mergeSet.size)

    println(mergeSet)

}
}

```

Output:

```

C:\Users\DELL\Desktop\Codes\Scala\exp10>scalac new.scala
warning: 1 deprecation (since 2.13.0); re-run with -deprecation for details
1 warning

C:\Users\DELL\Desktop\Codes\Scala\exp10>scala Main
Elements in games set: 4
Elements in alphabet set: 5
Elements in mergeSet: 9
HashSet(Golf, Hockey, A, B, C, Cricket, D, E, Football)

C:\Users\DELL\Desktop\Codes\Scala\exp10>

```